In the Claims:

Please amend the claims as follows:

1. (Currently amended) A system for assessing transmurality of an ablation in a tissue comprising:

an ablation apparatus operatively adapted to ablate a first side of the tissue;

a temperature-sensing pad operatively adapted to sense temperature along a second side of the tissue, the temperature-sensing pad comprising at least one suction opening positioned along a tissue contact surface, the suction opening operatively adapted to anchor the temperature-sensing pad to the tissue;

a suction source in communication with the suction opening, the suction source operatively adapted to provide suction to the suction opening; and

an output device in communication with the pad, the output device operatively adapted to indicate the temperature of the tissue.

2. (Previously presented) The system of claim 1 wherein the pad comprises temperature-sensing elements incorporated therein.

3. (Previously presented) The system of claim 1 wherein the temperature of the tissue indicated by the output device corresponds to transmurality of the lesion.

4. (Previously presented) The system of claim 2 wherein the temperature-sensing elements are arranged in a grid pattern.

5. (Previously presented) The system of claim 4 wherein the output device displays a representation of the grid pattern.

6. (Previously presented) The system of claim 1 wherein the output device includes a processor for processing a signal received from the temperature-sensing pad.

7. (Previously presented) The system of claim 1 wherein the output device includes an amplifier for amplifying a signal received from the temperature-sensing pad.

8. (Previously presented) The system of claim 2 wherein the temperature-sensing elements are thermocouples.

9. (Previously presented) The system of claim 2 wherein the temperature-sensing elements are thermisters.

10. (Previously presented) The system of claim 2 wherein the temperature-sensing elements are temperature-sensing liquid crystals.

11. (Previously presented) The system of claim 2 wherein the temperature-sensing elements are temperature-sensing chemicals.

12. (Previously presented) The system of claim 2 wherein the temperature-sensing elements are operatively adapted to be located within the tissue.

13. (Previously presented) The system of claim 1 wherein the pad is mounted on a glove.

14. (Previously presented) The system of claim 1 wherein the pad is formed as a portion of a glove.

15. (Previously presented) The system of claim 1 wherein the pad is operatively adapted to be fitted over a finger.

16. (Previously presented) The system of claim 1 wherein the pad further comprises a conductive element incorporated therein.

17. (Previously presented) The system of claim 1 wherein the output device comprises a visual display on a monitor.

18. (Previously presented) The system of claim 1 wherein the output device comprises a visual display on the pad.

Please add the following new claims:

19. (New) The system of claim 1 wherein the ablation apparatus comprises at least one suction opening positioned along a tissue contact surface, the suction opening operatively adapted to anchor the ablation apparatus to the tissue, the suction source in communication with the suction opening, the suction source operatively adapted to provide suction to the suction opening.

20. (New) A system for ablating a tissue comprising:

an ablation apparatus operatively adapted to ablate a first side of the tissue, the ablation apparatus comprising at least one suction opening positioned along a tissue contact surface, the suction opening operatively adapted to anchor the ablation apparatus to the tissue;

a temperature-sensing pad operatively adapted to sense temperature along a second side of the tissue, the temperature-sensing pad comprising at least one suction opening positioned along a tissue contact surface, the suction opening operatively adapted to anchor the temperature-sensing pad to the tissue;

a suction source in communication with the suction openings, the suction source operatively adapted to provide suction to the suction openings; and

an output device in communication with the pad, the output device operatively adapted to visual display the temperature of the tissue.